MESSRS: DEUTSCHE SCHIFF- & MASCHINENBAU A.G. WERK SEEBECK
YARD No 545/56 AND 559
AMENDED PLAN OF PROFILE AND DECKS
PLAN No 14386
BREMEN LETTER M OF 19.12.35.

545 "Northern Pride"
566 Gift.
569 Duke.

550 "Northern Foam"
"Northern Chief"

2/7
R. 9. 1.

PLANS TRANSFERRED
TO SISTER VESSEL

Northern Gem

D14S96-J4612-0049

23-12-35

S.S. 545/56 u. 559.

Longitudinalplan and decks

of

Steel-screw steamtrawler

Length between perpendiculars in C.W.L. 177,0' = 53,949 m
" " " (Lloyd's) 184,4 = 56,204 m
Breath moulded 28,0 = 8,534 m
Depth 16,5 = 5,029 m

Class ✠ 100 A1 „Steam Trawler" Lloyd's Reg. of Shipping.

L : D = 3043 L : D = 11

1:50

Backdeck
Wheel house
Captain and Off. space
Crew-space
Messroom
Galley
Cabin
Engine - and Boiler-Room
Coal-bunker
Spare fishhold and spare bunker
Fishhold and Iceroom
Store
open forecastle
Chain locker
Ballast water
Maindeck
Lower-deck
Watertight-flat
Watertight bulkhead 6
Watertight bulkhead 13/14
Not watertight bulkhead
Watertight bulkhead 41
Watertight bulkhead 79
(collision bulkhead)
Watertight bulkhead 83
Watertight bulkhead 89

Deutsche Schiff- und Maschinenbau
Aktiengesellschaft
WERK: SEEBECK
Wesermünde-G. Bremerhaven.
18. DEZ. 1935

17.12.35

545/56 u. 59
Longitudinalplan and decks.
14386
16. XII. 35.

014596-014603-0049
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MESSRS: DESCHIMAG WERK SEEBECK'S YARD No 554

STEAM TRAWLER "NORTHERN CHIEF."

FIRST ENTRY REPORT BREMEN No 1844.

011280- 011293- 0133

S.S. ~~545/56 u. 559~~ 554

Midship-Section AS BUILT

of

Steel-screw steam trawler "NORTHERN CHIEF"

1:25

Length between perpendiculars in CWL	177,00' =	53,949 m
Length between perpendiculars (Lloyd's)	184,4 ' =	56,204 m
Breadth moulded	28.0 ' =	8,534 m
Depth	16.5 ' =	5,029 m

Class: + 100 A1 „Steam Trawler„ Lloyd's Register of shipping

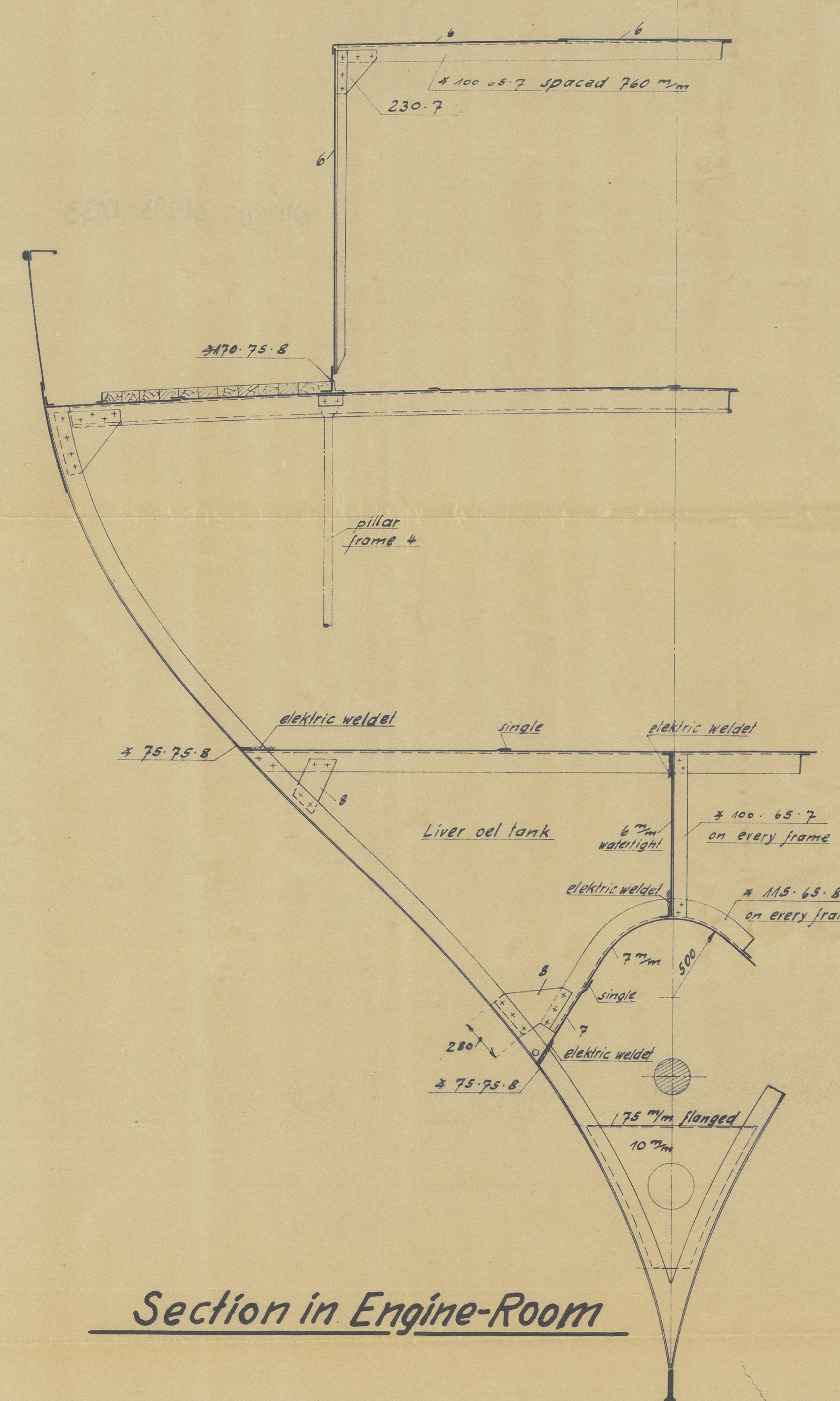
L × D = 3043   L : D = 11

Scantlings:
Side frames to longitudinalplan
Frames spacing " "
Bulkheads " "
Keel and stem ⌡ 200 × 40
Propeller post }
Rudder " } with plan to be submitted
Rudder }

Equipment L × (B+D) = 8164

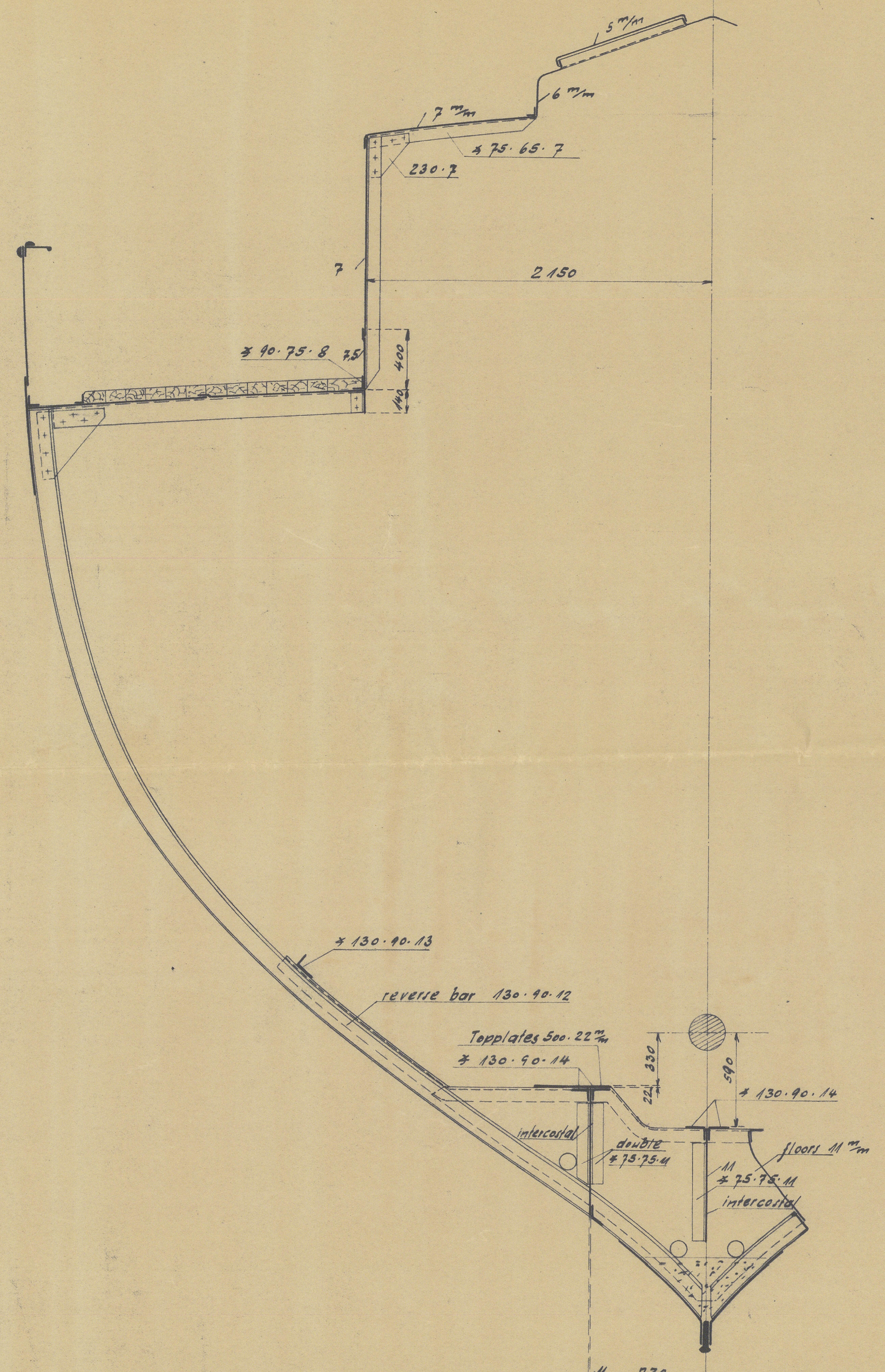
1 Anchor . .	13 cwts	stockless
1 " . .	12 "	"
1 " . .	4½ "	ex stock
150 Fathoms	1 5/16'	stud link cable = 132½ cwts
60 "	2¼'	flexible steel wire
60 "	2¼'	" " "

Section frame 9



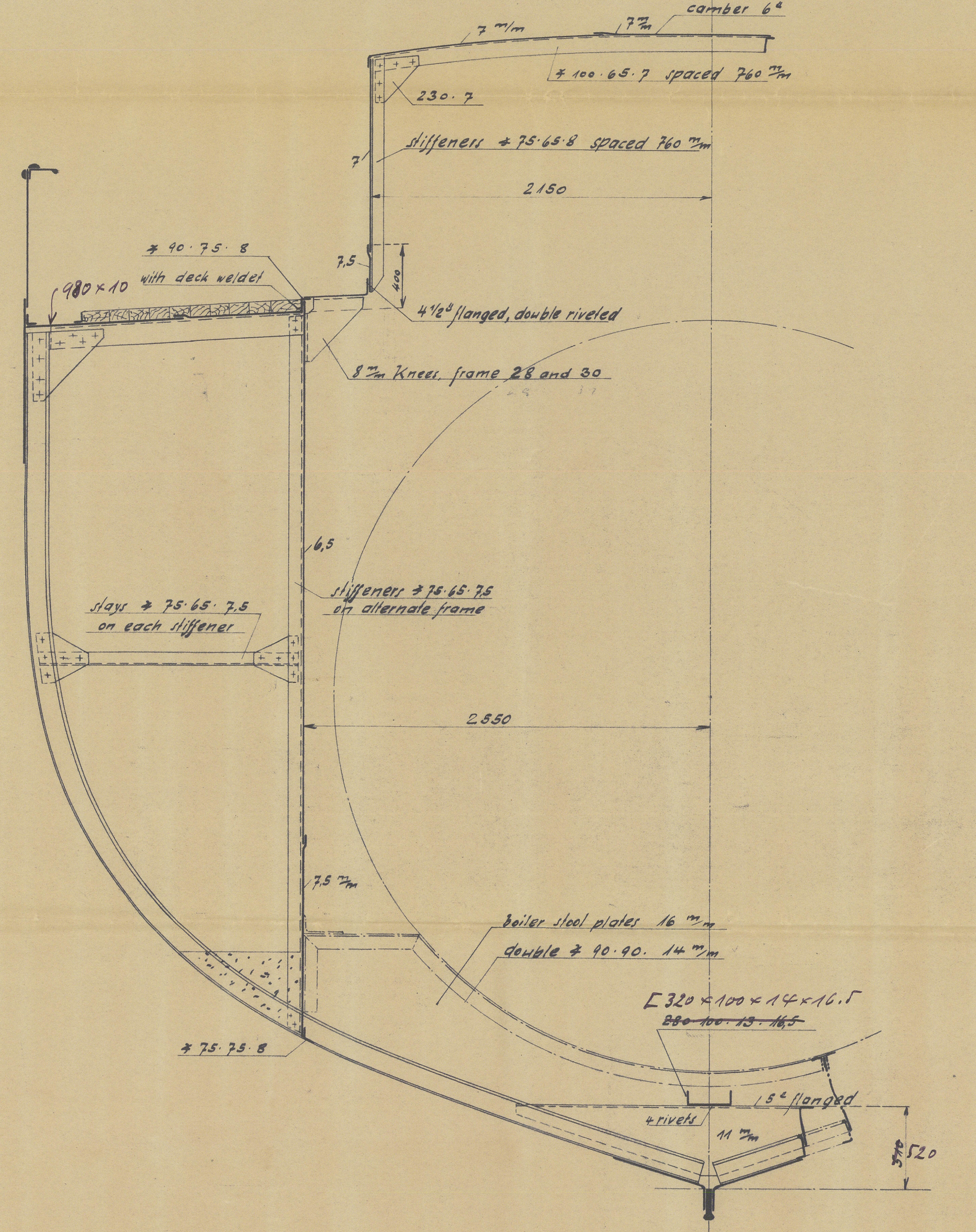
6
6
∠ 100·65·7 spaced 760 m/m
230·7
6
∠ 170·75·8
pillar frame 4
elektric weldet
single
elektric weldet
∠ 75·75·8
8
Liver oel tank
6 m/m watertight
∠ 100·65·7 on every frame
elektric weldet
∠ 115·65·8 on every frame
7 m/m
500
8
single
7
280
elektric weldet
∠ 75·75·8
75 m/m flanged
10 m/m

Section in Engine-Room



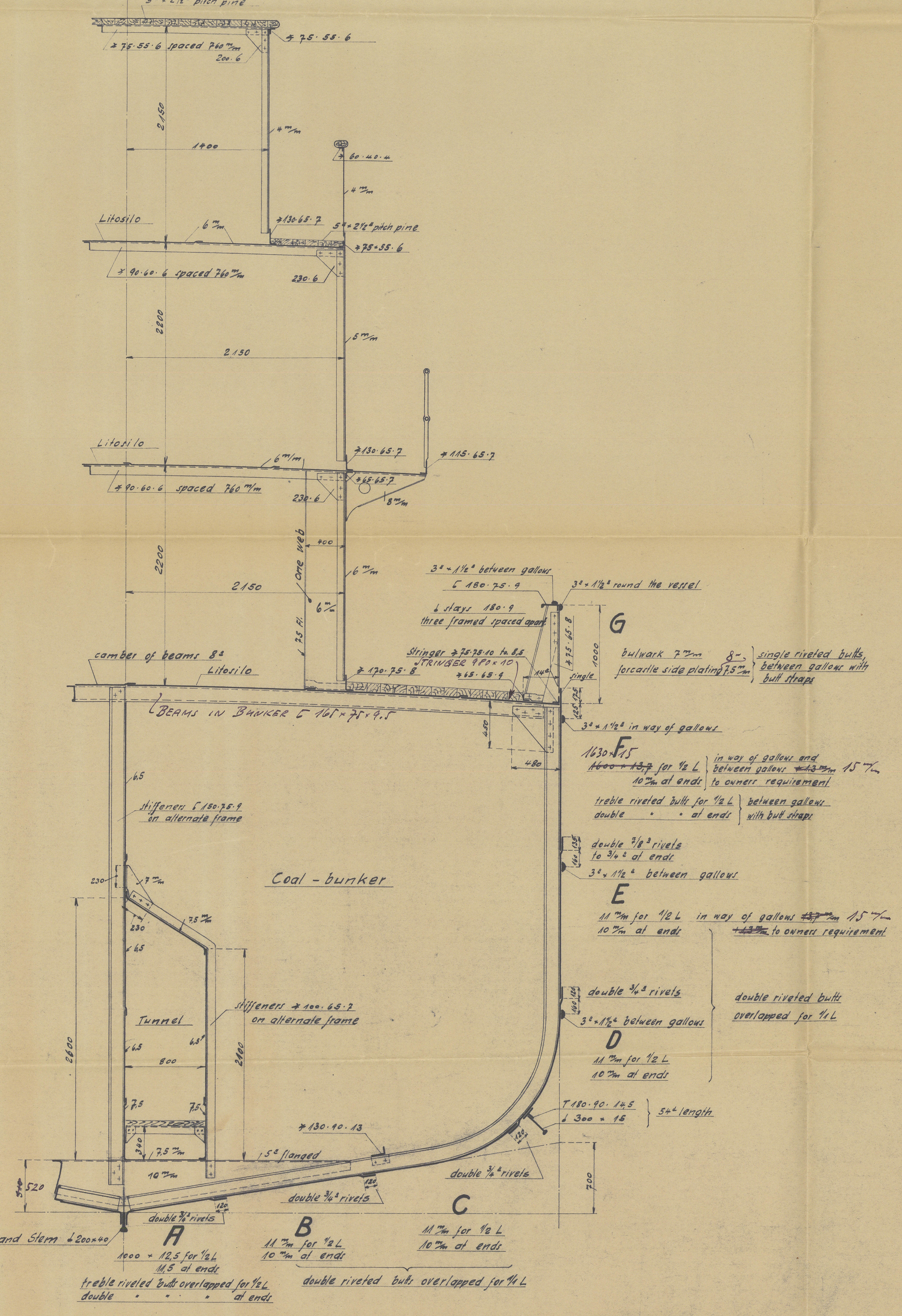
5 m/m
6 m/m
7 m/m
∠ 75·65·7
230·7
7
2150
∠ 90·75·8
7,5
400
140
∠ 130·90·13
reverse bar 130·90·12
Topplates 500·22 m/m
∠ 130·90·14
330
22
590
∠ 130·90·14
intercostal
double ∠ 75·75·11
floors 11 m/m
11
∠ 75·75·11
intercostal
11
730

Section in Boiler-Room



camber 6'
7 m/m
7 m/m
∠ 100·65·7 spaced 760 m/m
230·7
7
stiffeners ∠ 75·65·8 spaced 760 m/m
2150
∠ 90·75·8
980 × 10 with deck weldet
7,5
400
4½' flanged, double riveled
8 m/m Knees, frame 28 and 30
6,5
stiffeners ∠ 75·65·7,5 on alternate frame
stays ∠ 75·65·7,5 on each stiffener
2550
7,5 m/m
boiler stool plates 16 m/m
double ∠ 90·90·14 m/m
[320 × 100 × 14 × 16.5
~~280·100·13·16,5~~
∠ 75·75·8
4 rivets
11 m/m
5' flanged
520

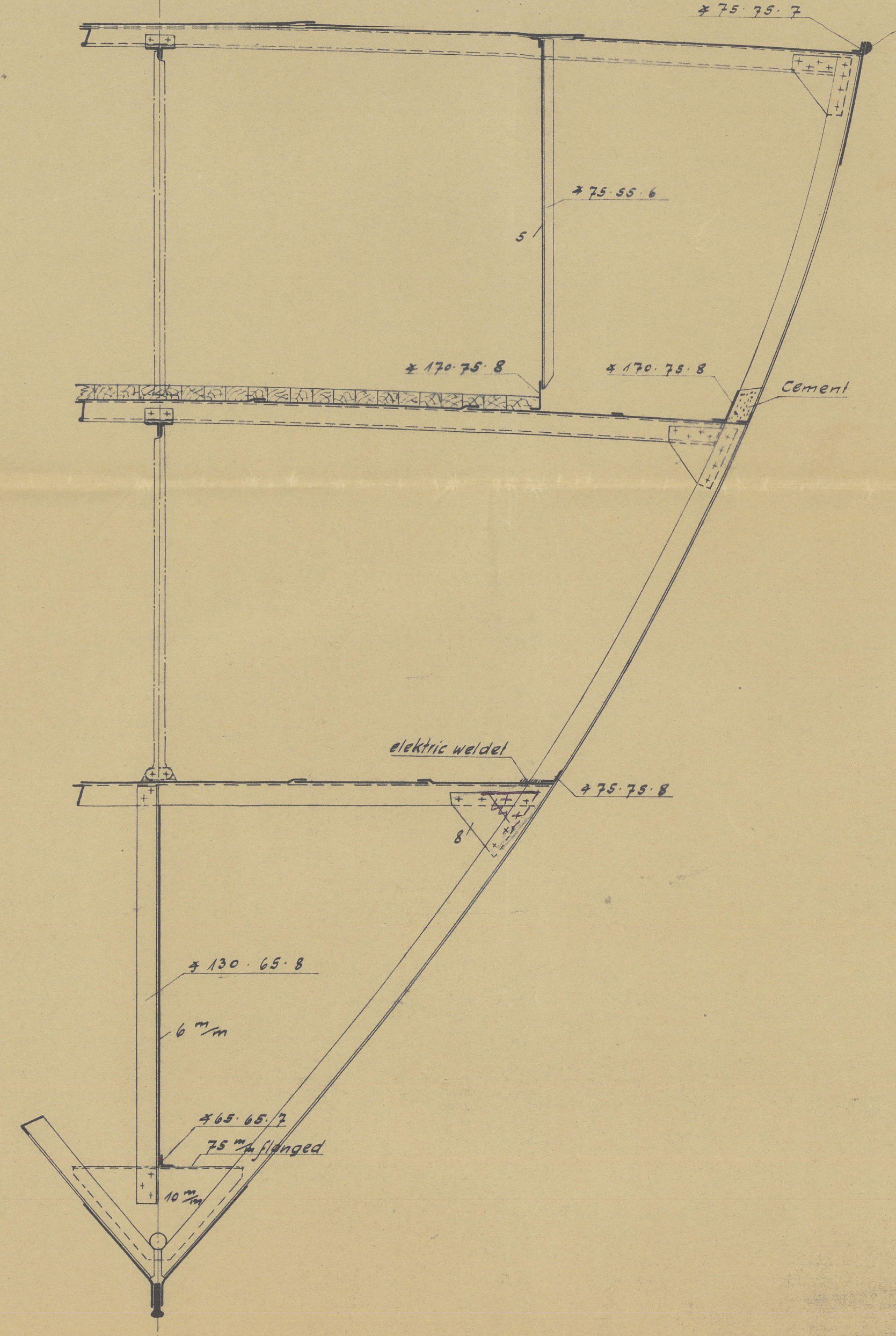
Midship-Section



5' × 2½' pitch pine
∠ 75·55·6 spaced 760 m/m
200·6
∠ 75·55·6
2150
1400
4 m/m
∠ 60·40·4
4 m/m
Litosilo
6 m/m
∠ 130·65·7
5' × 2½' pitch pine
∠ 75 × 55·6
∠ 90·60·6 spaced 760 m/m
230·6
2200
5 m/m
2150
Litosilo
6 m/m
∠ 130·65·7
∠ 115·65·7
∠ 65·65·7
∠ 90·60·6 spaced 760 m/m
230·6
8 m/m
400
One web
2200
6 m/m
2150
6 m/m
75 Fl.
3' × 1½' between gallows
[180·75·9
3' × 1½' round the vessel
⌡ stays 180·9 three framed spaced apart
∠ 75·65·8
1000
G
bulwark 7 m/m
forcastle side plating 7,5 m/m 8 –
single riveted butts, between gallows with butt straps
camber of beams 8'
Litosilo
∠ 170·75·8
Stringer ∠ 75·75·10 to 8,5
STRINGER 980 × 10
∠ 65·65·9
14'
single
125 125
BEAMS IN BUNKER [165 × 75 × 9.5
450
480
3' × 1½' in way of gallows
1630 × 15 F
~~1600 × 13,7~~ for ½ L
10 m/m at ends
in way of gallows and between gallows ~~× 13 m/m~~ 15 m/m to owners requirement
treble riveted butts for ½ L
double " " at ends
between gallows with butt straps
6,5
stiffeners [150·75·9 on alternate frame
Coal-bunker
230
7 m/m
7,5 m/m
230
6,5
double ⅞' rivets to ¾' at ends
135
160
3' × 1½' between gallows
E
11 m/m for ½ L
10 m/m at ends
in way of gallows ~~13,7 m/m~~ 15 m/m ~~× 13 m/m~~ to owners requirement
Tunnel
stiffeners ∠ 100·65·7 on alternate frame
2600
2100
6,5
6,5
800
double ¾' rivets
120
160
3' × 1½' between gallows
D
11 m/m for ½ L
10 m/m at ends
double riveted butts overlapped for 1/1 L
7,5
7,5
340
7,5 m/m
10 m/m
15' flanged
∠ 130·90·13
T 180·90·14,5
⌡ 300 × 15
120
double ¾' rivets
700
520
120
double ¾' rivets
120
double ¾' rivets
Keel and Stem ⌡ 200 × 40
A
1000 × 12,5 for ½ L
11,5 at ends
treble riveled butts overlapped for ½ L
double " " " at ends
B
11 m/m for ½ L
10 m/m at ends
C
11 m/m for ½ L
10 m/m at ends
double riveted butts overlapped for 1/1 L

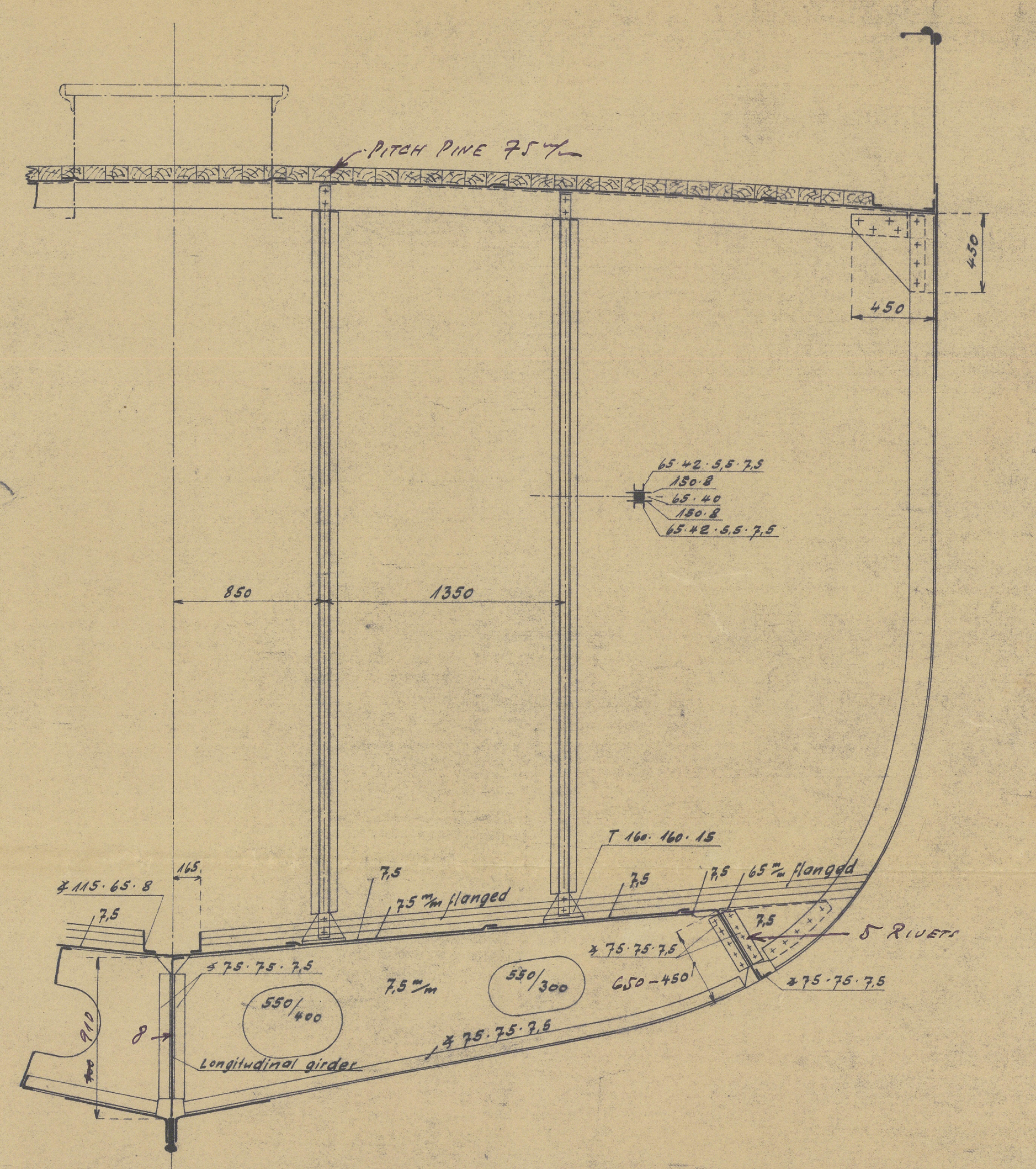
The plates connected to the sternframe 11 m/m
Shell plating at stem for about 28' aback between loaded and light waterline to be about 20% thicker than midships, to owners requirement

Section frame 87



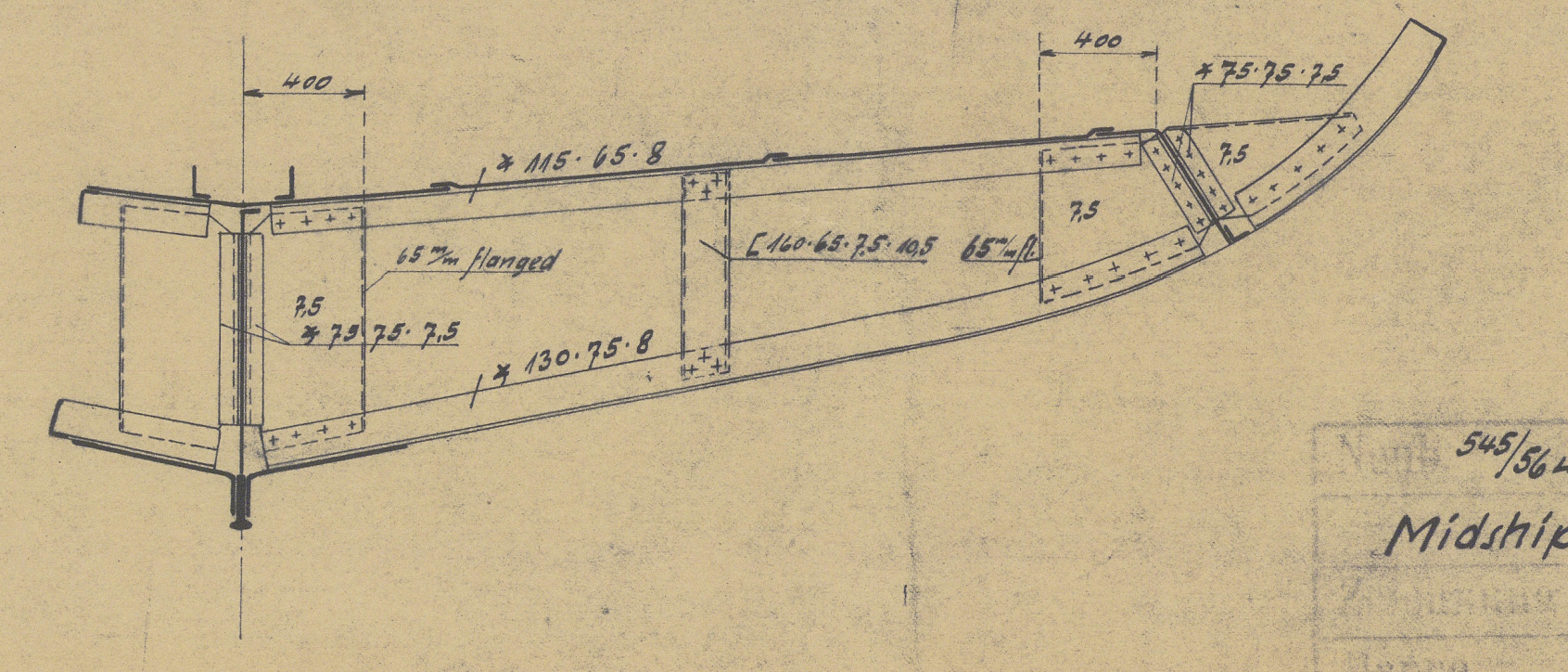
∠ 75·75·7
75·18
∠ 75·55·6
5
∠ 170·75·8
∠ 170·75·8
Cement
elektric weldet
∠ 75·75·8
8
∠ 130·65·8
6 m/m
∠ 65·65·7
75 m/m flanged
10 m/m

Section in Fishroom



PITCH PINE 75 m/m
450
450
65·42·5,5·7,5
150·8
65·40
150·8
65·42·5,5·7,5
850
1350
T 160·160·15
∠ 115·65·8
165
7,5
7,5
7,5 m/m flanged
7,5
7,5
65 m/m flanged
7,5
5 RIVETS
∠ 75·75·7,5
∠ 75·75·7,5
650–450
∠ 75·75·7,5
550/400
7,5 m/m
550/300
910
8
Longitudinal girder
∠ 75·75·7,5

Bracket floors



400
400
∠ 75·75·7,5
∠ 115·65·8
7,5
65 m/m flanged
[160·65·7,5·10,5
65 m/m fl.
7,5
7,5
∠ 75·75·7,5
∠ 130·75·8
7,5

545/56 u. 59 ./.
Midship-Section
14305

22/11.38

011280- 011293- 0133

MESSRS: DEUTSCHE SCHIFF- & MASCHINENBAU A.G. WERK SEEBECK

YARD No 545-56 AND 559

FINAL PLAN OF **STERNFRAME**

PLAN No 14.345

BREMEN LETTER M OF 14.12.35.

545	Pride
546	Gem
547	Wave
548	Dawn
549	Spray
550	Foam
550	Sun
551	Sky
552	Rover
553	Chief
554	Reward
556	Gift.

"Northern Pride"

~~D.S. 217 - See~~

PLANS TRANSFERRED TO SISTER VESSEL

Northern Gem

014596-014603-0045

20.12.35.

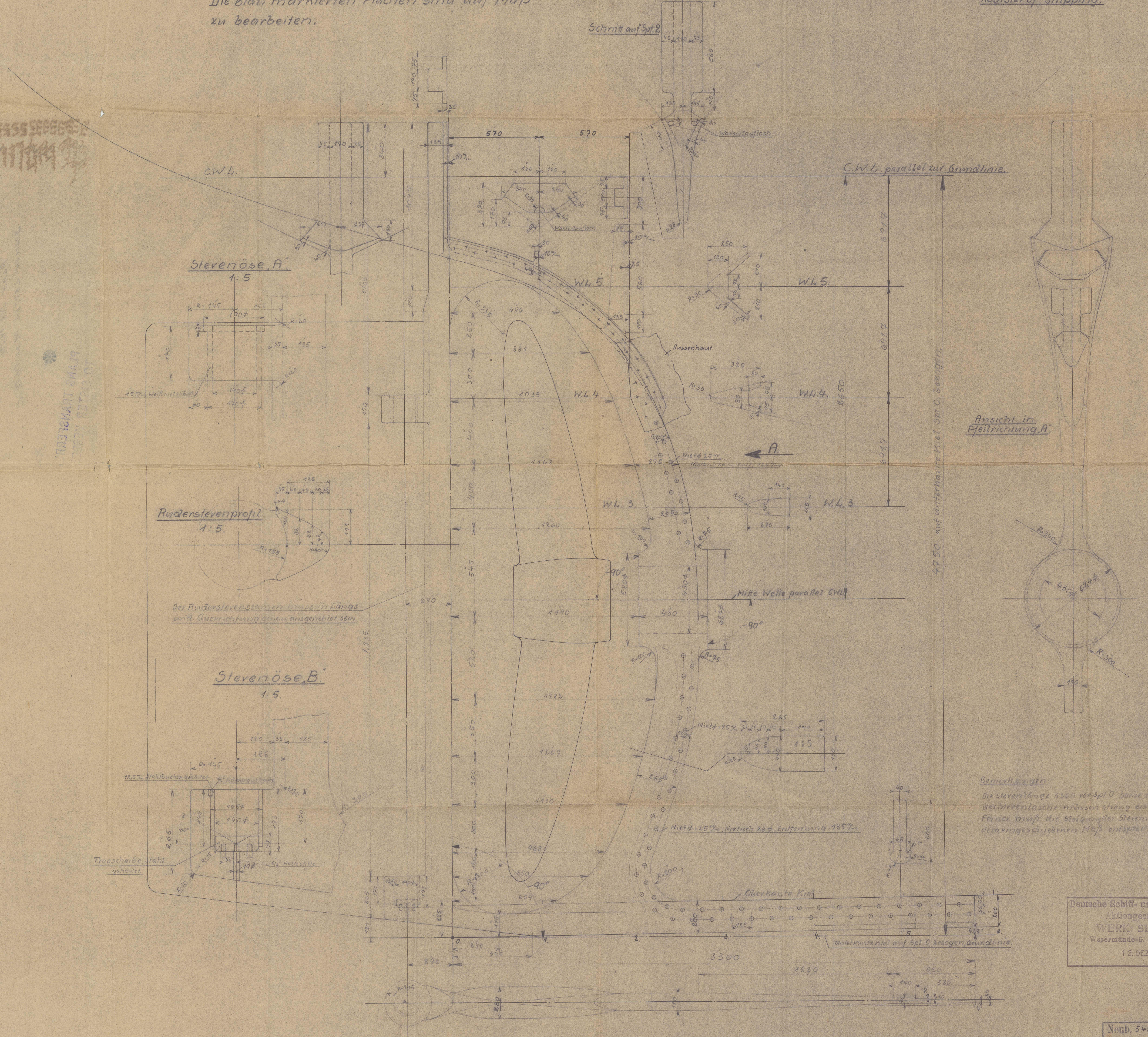
S.S. 545-56 u. 559.

Hintersteven.

1:10 u. 1:5.

Bemerkungen:
Die eingeschriebenen Maße sind Fertigmaße.
Die blau markierten Flächen sind auf Maß
zu bearbeiten.

Material: Stahlformguß, blasenfrei.
Alles nach Vorschrift und mit Test des Lloyds
Register of Shipping.


Schnitt auf Spt. 2
Wasserlaufloch
C.W.L.
C.W.L. parallel zur Grundlinie.
W.L. 5.
W.L. 4.
W.L. 3.
Aussenhaut
A.
Niet ϕ 25 m/m
Stevenöse „A“
1:5
15 m/m Weißmetallbuchse
Ansicht in Pfeilrichtung „A“
Ruderstevenprofil
1:5.
Mitte Welle parallel C.W.L.
4450 auf Unterkante Kiel Spt. 0 bezogen
Stevenöse „B“
1:5.
12,5 m/m Stahlbuchse, gehärtet
1/2" Sicherungsschraube
Tragscheibe, Stahl gehärtet.
5/8" Haltestifte
Niet ϕ = 25 m/m
1:5
Niet ϕ = 25 m/m, Nietloch 26 ϕ, Entfernung 125 m/m
Oberkante Kiel
Unterkante Kiel auf Spt. 0 bezogen, Grundlinie.
3300

Der Ruderstevenstamm muss in Längs- und Querrichtung genau ausgerichtet sein.

Bemerkungen:
Die Stevenlänge 3300 vor Spt 0 sowie alle Abmessungen der Stevenlasche müssen streng eingehalten werden.
Ferner muß die Steigung der Stevenunterkante genau dem eingeschriebenen Maß entsprechen.

Deutsche Schiff- und Maschinenbau
Aktiengesellschaft
WERK: SEEBECK
Wesermünde-G. Bremerhaven.
12. DEZ. 1935

Neub. 545/56 u. 59	Proj. /
Hintersteven.	
Zeichnung No.	14345
Mappe	/ 3. 12. 1935.

MESSRS: DEUTSCHE SCHIFF- & MASCHINENBAU A. G. WERK SEEBECK

YARD No 545-56 AND 559.

-RUDDER- PLAN No 14365

BREMEN LETTER M OF 14.12.35.

~~545~~ [illegible]

~~556~~

~~559~~ Northern Pride

545	Gem
546	Wave
547	Dawn
548	Spray
549	Foam
550	Sun
837	Sky
552	Rover
553	Chief
554.	Reward
555	Gift.
556.	

~~D. S. 917 - Sec 1~~

PLANS TRANSFERRED
TO SISTER VESSEL

Northern Gem

014596-014608-0046

20.12.35

S.S. 545-56+559.

SEEBECK RUDDER

Seebeckruder D.R.P.

1:10 u. 1:5.

RUDDER ARMS Ruderarme: Stahlformguß, blasenfrei.
" PLATE Ruderbleche: S.M. Flußeisen.
" MAINPIECE Ruderschaft: S.M. Flußeisen.
" ANGLE Ruderauslage nach jeder Seite 35°. TO P. AND ST.B SIDE.

Bemerkungen:
Alles nach Vorschrift und mit Test des
Lloyds Register of Shipping.
Die eingetragenen Maße sind Fertigmaße.
Die blau markierten Flächen sind auf Maß zu bearbeiten.

Rudder:
A = 62,7 square feet.
D = 2,62 feet.
Speed = 12 Nautical Miles per hour.

TOP PIECE
Oberer Ruderarm.
1:5.
Ansicht in Pfeilrichtung M.
Schnitt O-P.
Ansicht in Pfeilrichtung N.
BOTTOM PIECE
Unterer Ruderarm
1:5.
Ansicht in Pfeilrichtung L.
Schnitt Q-R.
Ansicht in Pfeilrichtung K.
Form nach Schablone
Außenumriß des Ruders
OUTLINE SECTION OF RUDDER
FULL STAYS (I-VII)
Volle Rippen (I-VII)
1:10
TACK WELDING
Zapfenschweißung
SECTION A-B
Schnitt A-B
SECTION C-D
Schnitt C-D
SECTION E-F
Schnitt E-F
WATERTIGHT
SECTION G-H
Schnitt G-H
ALL RIVETSCREWS TO BE SLIGHTLY OVERWELDED
Alle Nietschrauben leicht überschweißen
BOLTS FOR COUPLING
2" Passbolzen für Kupplung
6 Stück anfertigen
19 % SPOT WELDING
22 % Niete
7/8" RIVETS
10 % Bronce
3545
1590
801
606

Deutsche Schiff- und Maschinenbau
Aktiengesellschaft
WERK: SEEBECK
Wesermünde-G. Bremerhaven.
12. DEZ. 1935

20.12.35

Neub. 545-56+559	Proj.
Seebeckruder DRP	
Zeichnung No.	14365
Mappe	11.12.1935

014596-014603-0246